

Program Day 1st, December 5th, 2019

<suzuki hall="" umetaro=""></suzuki>						
13:00 Opening Remarks						
by Dr. Yasumasa Takenaka (Chair of SASC, CSRS)						
13:10 About "The All-RIKEN Workshop 2019"						
About the Scientists' Assembly Steering Committee (SASC) by Dr. Yasumasa Takenaka (Chair of SASC, CSRS)						
13:20 Oral Presentations ~ 12 min Talk, 3 min Question and Discussions ~ (Language: English)						
 42 mW Light Power and 9.1% EQE from AlGaN-based 304 nm-Band UVB LEDs grown on AlN Template 						

Dr. Muhammad Ajmal KhanSpecial Postdoctoral Researcher
Terahertz Quantum Device Research Team, RAP

2. Large fluctuations and the brain

Dr. Lukasz Kusmierz

Research Scientist

Laboraton, for Noural Computation and Adaptation, CRS

Laboratory for Neural Computation and Adaptation, CBS

 Hierarchical nanostructures and novel nanomaterials produced by laser ablation in liquids

Dr. Dongshi Zhang Postdoctoral Researcher

Advanced Laser Processing Research Team, RAP

Innovation on Metal-Mediated 11C-Cyanation and Intracyclic 11C-Labeling
 Dr. Zhouen Zhang
 Resea

Research Scientist Laboratory for Chemical Biology, BDR

--- Group Photo and Break ---

15:00 --- V.S.O.P.s (Very Short Oral Presentations) (Language: English) $\sim 5 \text{ min Talk, No Question and Discussions} \sim$

"Discovery Evening"

(P1) Development of Cu Spin Correlation in Overdoped La₂-xSrxCuO₄ Nanoparticles
 Mr. Suci Winarsih
 International Program Associate
 Meson Science Laboratory, RNC

2. (P29) Tunable superconducting microwave beam splitter and switch on-chip

Ms. Iuliia Zotova International Program Associate

Superconducting Quantum Simulation Research Team, CEMS

3. (P2) Hacking magnets with big data

Mrs. Marie-Therese Diana Huebsch International Program Associate
First-Principles Materials Science Research Team. CEMS

4. (P27) Investigating the physiological role of Amyloid Precursor Protein

Mr. Oliver Robert Wilkes

International Program Associate
Laboratory for Neurodiversity, CBS

5. (P28) The bushing of bacterial flagellar motor analyzed by electron cryomicroscopy

Ms. Tomoko Yamaguchi

Junior Research Associate

Laboratory for Supramolecular System Dynamics Research, BDR

"General (Researcher)"

 $6. \, (extbf{P10})$ Trials to visualize unidentified metabolic pathways and enzymes

Dr. Yoko Chiba Research Scientist

Biofunctional Catalyst Research Team, CSRS

7. (P18) Hyperspectral imaging and Terahertz Spectroscopic Imaging Technology as the Novel Techniques for Food

Dr. Chaohui Feng Special Postdoctoral Researcher

Terahertz Sensing and Imaging Research Team, RAP

8. (P24) Electron Ion Collider

Dr. Yuji Goto

Senior Research Scientist Radiation Laboratory, RNC

of molecular liquids

9. (P8) Study of protein stability by integral equation theory of molecular liquids

Dr. Yutaka Maruyama

Research Scientist

Architecture Development Team. R-CCS

 (P11) In vivo calcium imaging with a single cell resolution using "cosmoscope", a new widefield two-photon microscope

Dr. Keisuke Ota

Research Scientist

Laboratory for Haptic Perception and Cognitive Physiology, CBS

11. (P3) Universality of Few Charged Particles

Dr. Christiane Heike Schmickler

Postdoctoral Researcher

Strangeness Nuclear Physics Laboratory, RNC 12. (P14) Memory of my victory and your defeat: Contributions of reward- and memory-related regions to the encoding of winning events in competitions with others

Dr. Hikaru Sugimoto

Postdoctoral Researcher

Cognitive Behavioral Assistive Technology Team, AIP

13. (P16) QM/MM in GENESIS: Anharmonic vibrational calculations of biomolecules

Dr. Kiyoshi Yagi Senior Research Scientist

Theoretical Molecular Science Laboratory, CPR

14. (P5) EDGE: An Chisel-Based General Purpose Network on Chip Generator

Dr. Hao Zhang Research Scientist

Laboratory for Computational Molecular Design, BDR

< Main Cafeteria>

16:45 --- Poster Presentation

17:20 --- Free Talk

17:30 --- The 20th Interdisciplinary Exchange Evening

with Free Food and Drinks

19:00 --- Live Performance by CPR Band

19:30 --- Closing

Day 2nd, December 6th, 2019

< Suzuki Umetaro Hall >

10:00 --- Opening Remarks

by Dr. Masafumi Jo (WG1 Leader of SASC, CPR)

10:10 — About the Collaboration Seed Fund 「『連携のタネ』ファンド」 by Dr. Ma Yue (WG4 Leader of SASC, CPR)

--- Group Photo ---

10:45 --- Special Talks ~ 45 min Talk, 15 min Question and Discussions ~

「研究所計画のプロセスからメンテナンスまで - 理想のラボと現実-」
(Language: Japanese)

- 1. Mr. Satoshi Tanaka (Corporate Officer, Dalton Corporation)
- 2. Mr. Toshimitsu Masuda (General Manager, Dalton Corporation)

--- Lunch ---

13:00 — About the Chief Scientist Assembly (CSA) Research Workshop by Dr. Tahei Tahara (Chair of CSA, Chief Scientist, CPR)

13:10 --- Short Award Talks ~ 12 min Talk, 3 min Question and Discussions ~

Robust learning against label noise
 "RIKEN BAIHO Awards"

Dr. Gang NiuResearch Scientist

Imperfect Information Learning Team, Generic Technology Research Group, AIP

2. A secreted mobile peptide mediates distant organ communications in drought stress response

"RIKEN BAIHO Awards"

Dr. Fuminori Tahahashi

Research Scientist

Gene Discovery Research Group, CSRS

Optimization algorithm of order/degree problem for network topology in parallel computer system

"RIKEN BAIHO Awards"

Dr. Masahiro Nakao

Research Scientist

Programming Environment Research Team, R-CCS

. The right decision is not always right — What I think through the PiP development "RIKEN BAIHO Awards"

Dr. Atsushi Hori

Senior Research Scientist

System Software Research Team, R-CCS

 Establishment of a new fate mapping system and identification of a molecular pathway of multipotent memory CD8+ T cells "RIKEN BAIHO Awards"

Dr. Harumichi Ishigame

Research Scientist

Laboratory for Tissue Dynamics, IMS

6. Development of a new genomic technology for DNA replication analysis in single cells "RIKEN EIHO Awards"

Dr. Hisashi Miura

Research Scientist Special Postdoctoral Researcher

Dr. Saori Takahashi Dr. Ichiro Hiratani

. Team Leader

Laboratory for Developmental Epigenetics, BDR

--- Break ---

15:00 --- Invited Talks

~ 50 min Talk, 10 min Question and Discussions ~

1. Rational Design of Mixed-Anions Semiconductor Photocatalysts toward Solar Hydrogen Production

by Prof. Ryu Abe (Kyoto University)

Catalyst and Process Design for Synthesis/Decomposition of Ammonia as an Energy Carrier

by Prof. Katsutoshi Nagaoka (Nagoya University)

17:00 --- Poster Award

17:25 --- Closing

Poster Presenters (Blue bold numbers are Very Sort Oral Presenters)

P1.		lation in Overdoped La ₂ -xSrxCuO ₄	5 44	Biofunctional Catalyst Research Team, CSRS		
	Nanoparticles		P11.	In vivo calcium imaging with a single cell resolution using		
	Suci Winarsih	International Program Associate		"cosmoscope", a new wide-field two-photon microscope		
		Meson Science Laboratory, RNC		Keisuke Ota Research Scientist		
P2.	22. Hacking magnets with big data			Laboratory for Haptic Perception and Cognitive Physiology, Cl		
	Marie-Therese Diana Huebsch International Program Associate		P12.	Photodetachment of negative ion beams for the ion-neutral merged- beam experiments at RICE		
	First-Principles Materials Science Research Team, CEMS					
P3.	Universality of Few Charged Part	icles		Masatomi lizawa Junior Research Associate		
	Christiane Heike Schmickler	Postdoctoral Researcher		Atomic, Molecular & Optical Physics Laboratory, CPR		
	Strangeness Nuclear Physics Laboratory, RNC		P13.	Improvement of estimation of surface flux in atmospheric simulation		
P4.	· · · · · · · · · · · · · · · · · · ·			Seiya Nishizawa Research Scientist		
	patterning in neural stem cells			Computational Climate Science Research Team, RCCS		
	Quan Wu	Special Postdoctoral Researcher	P14.	Memory of my victory and your defeat: Contributions of reward- and		
		Laboratory for Cell Asymmetry, BDR		memory-related regions to the encoding of winning events in		
P5.	EDGE: An Chisel-Based General Purpose Network on Chip Generator			competitions with others		
	Hao Zhang			Hikaru Sugimoto Postdoctoral Researcher		
	Laboratory for Computational Molecular Design, BDR			Cognitive Behavioral Assistive Technology Team, AIP		
P6.	,		P15.			
	Yasuhiro Oisi	Special Postdoctoral Researcher		Hirohito Sasaki Visiting Technician		
	Laboratory for Haptic Perception and Cognitive Physiology, CBS			Ultrahigh Precision Optics Technology Team, RAP		
P7.	, , , , , , , , , , , , , , , , , , , ,		P16.	, , , , , , , , , , , , , , , , , , , ,		
	Hiroshi Oike	Visiting Scientist		biomolecules		
	Dynamic Emergen	t Phenomena Research Unit, CEMS		Kiyoshi Yagi Senior Research Scientist		
P8.				Theoretical Molecular Science Laboratory, CPR		
			P17.	•		
	Yutaka Maruyama	Research Scientist		mutant		
	_	nitecture Development Team, R-CCS		Yuichi Shichino Visiting Researcher (JSPS Research Fellow)		
P9.	•			RNA Systems Biochemistry Laboratory, CPR		
	enzyme variants		P18.	Hyperspectral imaging and Terahertz Spectroscopic Imaging		
	Yutaro Mori	Postdoctoral Researcher		Technology as the Novel Techniques for Food		
		Cell Factory Research Team, CSRS		Chaohui Feng Special Postdoctoral Researcher		
P10.	·			Terahertz Sensing and Imaging Research Team, RAP		
	Yoko Chiba	Research Scientist	P19.	Multiple-isotope positron emission tomography and its applications		
				and the state of t		

	Tomonori Fukuchi	Research Scientist hysiological and Health Science, BDR		Iuliia Zotova	International Program Associate International Program Associate, CEMS	
P20.	,	raction in the dimerization of	P30.	Long-range substituent e	effect on selectivity in radical fluoroalkylation	
1 20.	juxtamembrane domains of epic		1 00.	0 0	f N-arylallylamides: Selective synthesis of	
	Ryo Maeda	Contact Researcher		fluoroalkylated phenethyl		
	nyo macaa	Sako Cellular Informatics, CPR		Yusuke Mitani	Student Trainee	
P21.	Biological application of ion mi	crobeam irradiation: measurement of			ynthetic Organic Chemistry Laboratory, CPR	
	beam profiles		P31.	•	expression based on brain network dynamics	
	Yuka Hikima	Student Trainee		in mice	•	
		Detector Team, RNC		Nobuhiro Nakai	Research Scientist	
P22.	P22. The effect of lipid composition on the dimer conformation of EGFR TM-			Laboratory for Mental Biology, CBS		
	JM region investigated with MD simulations.			Design and analysis of D	UV-LEDs and QCLs by utilizing HOKUSAI	
	Daisuke Matsuoka	Postdoctoral Researcher		Joosun Yun	Special Postdoctoral Researcher	
	Theoreotical Molecular Science Laboratory, CPR				Quantum Optodevice Laboratory, CPR	
P23.	, , ,		P33.	•	Stimulated Raman Spectroscopic studies on	
	temperature in thienoquinoid se				tion in K[Au(CN)2] large oligomers	
	Tetsuya Aoyama	Senior Research Scientist		Li Liu	Postdoctoral researcher	
D04		Elements Chemistry Laboratory, CPR	D0.4	Daniel adaptive viewalia	Molecular Spectroscopy Laboratory, CPR	
P24.	Electron Ion Collider	Canian Bassanda Caiantist	P34.		ration of electron spin relaxation in a	
	Yuji Goto	Senior Research Scientist		semiconductor	Special Postdoctoral Researcher	
P25.	Radiation Laboratory, RNC 225. Visualization of Homeostatic Disturbances in Space			Shunji Yamamoto	Surface & Interface Science Laboratory, CPR	
1 23.	Asako Sakaue-Sawano	Research Scientist	P35.		optical properties in air-suspended carbon	
		Lab for Cell Function Dynamics, CBS	1 00.	nanotubes	optical properties in all suspended carbon	
P26.		ared-Use Facilities and Equipment \sim		Zhen Li	Postdoctoral Researcher	
0.	SimpRent (理研) ~				oscale Quantum Photonics Laboratory, RAP	
	Kentaro Fuji	Staff	P36.		n spectroscopy based on entangled photon	
	•	ering Research Promotion Office, CPR		pairs		
P27 .	Investigating the physiological role of Amyloid Precursor Protein Oliver Robert Wilkes International Program Associate			Korenobu Matsuzaki	Special Postdoctoral Researcher	
					Molecular Spectroscopy Laboratory, CPR	
		Laboratory for Neurodiversity, CBS	P37.	Improvement of light-ext	raction efficency AlGaN UV LEDs by using	
P28.	The bushing of bacterial flagellar motor analyzed by electron			superlattice hole spreadir		
	cryomicroscopy			Noritoshi Maeda	Research Scientist	
	Tomoko Yamaguchi	Junior Research Associate			Quantum Optodevice Laboratory, CPR	
Dec		ular System Dynamics Research, CBS	P38.		to stop and collect high energy RI beam, and	
P29.	Tunable superconducting micro	wave beam splitter and switch on-chip		extract radioactive ions w	vith a high efficiency	

Shun limuraJunior Research Associate

Instrumentation Development Group, SLOWRI Team, RNC

P39. Development of an Interferometric 2D Heterodyne-detected Vibrational Sum-frequency Generation Spectrometer for Investigation of Ultrafast Dynamics at Liquid Interfaces

Woongmo Sung
Postdoctoral Researcher
Molecular Spectroscopy Laboratory, CPR

P40. Efficient siRNA delivery using peptide-lipid hybrid vesicle mediated by fusogenic pathway

Mohammed Abdelhamid ramadan Abosheasha Student trainee
Nano Medical Engineering Laboratory, CPR

P41. Fission of Capsule-Shaped Vesicle Prepared from Amphiphilic Polypeptides

Kon Son Research Part-time Worker II, Student Trainee Emergent Bioengineering Materials Research Team, CEMS

P42. Cbfb/Runx regulate ILC2 function and homeostasis

Takashi Ebihara Visiting Scientist (Professor)

Laboratory for Transcriptional Regulation, IMS (Akita University)

P43. [Expired] FY2019 Incentive Research Projects

Kentaro Fuji Staff

Pioneering Research Promotion Office, CPR

Poster Arrangement

